SENIN, A.G.

Problems affecting the analysis and synthesis of measuring systems for extrapolating random fields. Izv. SO AN SSSR no.2. Ser. tekh. nauk no.1:54-62 164. (MIRA 17:8)

l. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

ACCESSION NR: AP4028978

8/0280/64/000/002/0081/0086

AUTHOR: Senin, A. G. (Novosibirsk)

TITLE: Transmission of random signals by a linear dynamic system with distributed parameters

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1964, 81-86

TOPIC TAGS: random signal, cybernetics, random stationary process, linear dynamic system, distributed parameter system

ABSTRACT: The problem of the statistical dynamics of a distributed-parameter system is considered. Using the thermal conduction equation as an example, the correlation functions and spectral densities of random stationary processes are found. These results helped in developing a formula for the spectral density of a generalized stationary system with three types of boundary conditions. The cooling of a medium flowing in a thick-walled pipeline is used as an example

Card 1/2

ACCESSION NR: AP4036507

5/0103/64/025/005/0653/0660

AUTHOR: Senin, A. G. (Novosibirsk)

TITLE: Statistical problem of synthesis for a distributed-parameter plant

SOURCE: Avtomatika i telemekhanika, v. 25, no. 5, 1964, 653-660

TOPIC TAGS: automatic control, distributed parameter plant, statistical

synthesis

ABSTRACT: The problem of synthesizing a measuring system for a random planar field, i.e., a field dependent on time and one spatial coordinate, is considered. The problem is reduced to a solution of the integral equations known in the theory of random processes. The solution determines an optimum transient response of a distributed-control system capable of extrapolating the random field. The intercorrelation function between the unknown and the input signals has this form:

$$R_{h\bullet}(x,\tau) = \int_{0}^{L} dy \int_{0}^{\infty} R_{\mu x}^{(\bullet)}(x,y,\tau-\theta) k(y,\theta) d\theta \qquad (\tau > 0, \ 0 < x < L),$$

Card 1/2

L 31089=65 MT(d)/EPF(n)-2/MT(1) Po-4/Pq-4/Pg-4/Pae-2/Pu-4/Pk-4/P1-4 IJP(c) WW/BC S/0103/65/026/001/0103/0106	
IJP(c) WW/EU	
ACCESSION NR: AP5003975 5/0103/65/026/001/0103/	
AUTHOR: Senin, A. G. (Novosibirsk)	
TITLE: Problem of statistical analysis of control systems with distributed parameters	
SOURCE: Avtomatika i telemekhanika, v. 26, no. 1, 1965, 103-106	
TOPIC TAGS: distributed parameter control system, automatic control, automatic control design, automatic control system, automatic control theory	
ABSTRACT: Up to now, the dynamic characteristics of distributed-parameter plants were approximated on the basis of experimental data by linear concentrated-parameter units including the delay units. In the present short concentrated is solved of determining the spectral density of control error article, the problem is solved of determining the spectral density of control when the plant is described by a second-order partial differential equation with	
Card 1/2	

	3		

ACCESSION NR: AP5003975

constant coefficients and linear boundary conditions. The disturbance is regarded as a stationary random process with a known spectral density. A formula for the error spectral density is developed. The method of solution is illustrated by an example with a thin-wall once-through heat exchanger. Orig. art. has: 2 figures and 24 formulas.

ASSOCIATION: none

SUBMITTED: 20Feb64 ENCL: 00 SUB CODE: IE

NO REF SOV: 002

OTHER: 000

Curd 2/2

SENIN, A.G.

Maximization of a signal-to-noise ratio in presence of nonstationary interference. Radiotekh. i elektron. 10 no.9:1720-1721 S '65. (MIRA 18:9)

L 06314-67 EWT(d)

ACC NR: AP6016321 (N)

SOURCE CODE: UR/0410/65/000/005/0012/0016

AUTHOR: Borisov, B. D. (Novosibirsk); Senin, A. G. (Novosibirsk)

93

ORG: none

TITLE: On the synthesis of a measurement system for the classification of random pro-

cesses

SOURCE: Avtometriya, no. 5, 1965, 12-16

TOPIC TAGS: random process, random noise signal, wideband communication

ABSTRACT: A method is proposed for the synthesis of an analog measurement system which can be used to classify random processes. Each channel of the system consists of two linear filters and a square law detector. In the classification problem considered, a signal, observed in the time interval [0-T] is a realization of one of n random processes $n_j(t)$ $(j=1,2,\ldots,n)$ and it is required to establish the nature of the process itself from the accepted realization x(t). Problems of this type are encountered in medical and technical diagnostics when random signals must be detected in the presence of background noise or when speech signals must be recognized automatically. In the proposed system, the input signals are measured and transformed and the accepted realization is used to evaluate the correlation function and to compare it with the

correlation function of the process to be classified when the latter correlation func-

UDC: 621.391

Card 1/2

L 32610-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) GD/EC

ACC NR: AT6011924 SOURCE CODE: UR/0000/66/000/0008/0031

AUTHOR: Sinitsyn, V.S. (Novosibirsk); Senin, A.G. (Novosibirsk)

54 B+1

ORG: none

TITLE: The synthesis of measuring information systems for the extrapolation of random uniform fields

SOURCE: Vsesoyuznaya konferentsiya po avtomaticheskomu kontrolyu i metodam elektricheskikh izmereniy, 5th. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Izmeritel'nyye informatsionnyye sistemy. Ustroystva avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Information measurement systems. Automatic control devices. Electrical measurements of non-electrical quantities). Novosibirsk, Izd-vo Nauka, 1966, 28-31

TOPIC TAGS: information processing, measuring restrainent, optimal control, automatic control theory, random process

ABSTRACT: Arbitrary dynamical systems are usually under the influence of random interactions, and thus during the analysis and synthesis of measuring systems it is natural to apply statistical methods. Methods developed by the theory of random functions seem to be

Card 1/2

L 32610-66

ACC NR: AT6011924

the most effective. The present article investigates the synthesis of optimum measuring devices for the extrapolation of random uniform fields in a plane, i.e., time- and unidimensional space-dependent fields. Such a problem is encountered if it is necessary, onthe basis of information on the past state of the plant, to predict its future state at some sector, or at points of another sector which, for any reason, are inaccessible to direct control. The determination of the optimum operator is reduced to the establishment of the appropriate weight function. In the search for such a function, it is initially assumed that the measurement is carried out at every point of the accessible portion of the space, i.e., distributed control is achieved. It is shown that such a distributed control may be replaced approximately by control at individual points, the signals of which are then summed with the corresponding weight functions. The synthesis is limited to measuring systems for the extrapolation of random uniform fields the correlation function of which depends on the time and space shift. Orig. art. has: 14 formulas.

SUB CODE: 09, 13 / SUBM DATE: 29Nov65 / ORIG REF: 004 / OTH REF: 001

Card 2/2 20

SENIN, A.G., inzh.

Water level indicator for open reservoirs. Elek.sta. 31 no.7:85-87
J1 '60.

(Hydraulic power stations)
(Liquid level indicators)
(Reservoirs)

83684

s/135/60/000/010/006/015 A006/A001

1. 2300 contry 22088 also 2308

Novokreshchenov, M. M., Podvol'skiy, L. I., Senin, A.

AUTHORS:

Condenser Butt Welding of BT-1-2 (VT-1-2) Titanium and 1X18H9T

TITLE:

(1Kh18N9T) Steel Pipes

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 10, pp. 20-22

An investigation was made at NIIAVTOPROM of the condenser resistance welding of VT-1-2 titanium and lKh18N9T steel pipes of 10-23 mm in diameter and 1.0-1.5 mm wall thickness. The experiments were made on a laboratory machine equipped with a TKN-200-3-1 (TKI-200-3-1) transformer from the "Elektrik" plant. Pipe sections of 70 and 200 mm length were welded. One part of the pipes was surface-etched prior to welding. In all cases welding was performed without a gas shield. Optimum values were set up for the capacitance of the capacitor battery, the charging voltage, the up-setting force, the effective threat depth of the pipe from the insert electrodes and the transformation coefficient lof the welding transformer. The conditions established (given in a table), were used to carry out control welds of pipes which were then tested as to the tightness, elongation and vibration strength of the welds. On account of the fact

Card 1/2

83684 S/135/60/000/010/006/015 A006/A001

Condenser Butt Welding of BT-1-2 (VT-1-2) Titanium and $1\chi18H9T$ (1Kh18N9T) Steel Pipes

that in condenser welding cast metal is not present in the weld and the zone of the thermal effect does not exceed 0.1 mm, an attempt was made of eliminating heat treatment of VT-1-2 alloy pipes after welding. The pipes were not heat treated and were tested 6 months after welding. The steel and titanium pipes were consecutively subjected to hydraulic (300 atm), pneumatic (200 atm) tests. and to tests under vibration load with repeated hydraulic and pneumatic tests at the indicated pressure. Vibration tests were performed for 6 hours on a special stand (Fig. 4) in vertical direction at 45 to 50 cycles frequency and 1 + 0.1 mm amplitude. 20 to 25 pipes of each diameter and grade were tested and no cases of breakdown or loss in tightness were stated. It is concluded that the described welding method produces strong and stable joints when welding VT-1-2 titanium and 1Kh18N9T steel pipes. There are no oxides, cracks or other defects in the butts. Heat treatment of VT-1-2 pipes can be eliminated. Preliminary etching which is necessary in argon arc welding is not required for condenser welding of Ti alloys, which may be carried out without shielding the butt zone. There are 5 figures and 1 table.

X

Card 2/2

SENIN, A.M., inzh.; SUKHCRUKCV, A.P., inzh.

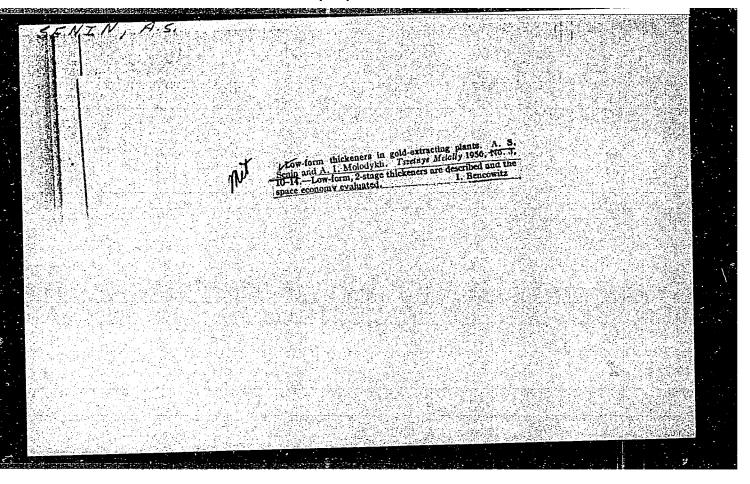
Pores in argon-arc welded joints in titanium alloys and measures
for preventing them. Svar. proizv. 12:24-26 D '63. (MIRA 18:9)

L 63952-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/ EWA(c) LIP(c) MJW/JD/HM/JW/JG UR/0135/65/000/008/0001/0003 & ACCESSION NR: AP5020156 621.791:669.295.5:669.35 B S. (Engineer); Slonimskiy, Ye. V. (Engineer); Senin. AUTHOR: Mikhaylov A. M. (Engineer); Sukhorukov, A. P. (Engineer) 14.55 alloys to copper and its alloys TITLE: SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 1-3 TOPIC TAGS: welding, TIG welding, titanium alloy, copper, copper alloy, titanium alloy copper welding, dissimilar metal welding, is molybdenum containing alloy, niobium containing alloy, tantalum containing alloy/VT15 alloy, BrKh08 bronze, 11 copper alloy ABSTRACT: The feasibility of welding titanium alloy to copper and its alloys has been investigated, (Sheets 1.5-2 mm thrck of β-titanium alloy VT15 (3.50% Al, 7.50% Mo, and 11.30% Cr) and experimental β -alloys containing 20 Mo, 30 Mo, 20 Nb, 30 Nb, or 30 Ta ware TIG welded to M3 copper. The best results were achieved with Ti-30 Nb rnc and VT15 alloy: a tensile strength of 18.0-25.4 and 20.5-24 kg/mm²; and a bend angle of 172-180 and 142-180 deg, respectively. The Card . 1/2

l 63952-65		
ACCESSION NR: AP5020156	그는 사용 하나요 하는 하는 하나 사람들은 사람들은 사람들은 사람들은 생각하는	3
in the weld. Good result alloy to BrKh08 bronze a alloy 11. The weld strecopper alloys at all tem can be directly welded to	er. With other alloys failts were also obtained in to describe the copper of the coppe	obalt-beryllium, β e as that of the us, copper alloys stable β structure. iding copper alloys
ASSOCIATION: none		
WOOODTWITON.		하지만 하고 그렇지만 하다 때 하고 하는 것이다. 그는 그는 그는 그는 그는 그는 그를 하고 하는 것이다. 그는 그를 보는 것이다.
SUBMITTED: 00	ENCL: 00	SUB CODE: MM
	ENGL: 00 OTHER: 000	SUB CODE: MM ATD PRESS: 4071

£ 6295657 EMI(m)/EmP(w)/I/EmP(t)/EII/EMP(k) IJP(c) JDÄHW ACC NR: AP6032455 SOURCE CODE: UR/0129/66/000/009/0030/0033 AUTHOR: Shorshorov, M. Kh.; Antipov, V. I.; Senin, A. M.; Belov, V. V. ORG: Institute of Metallurgy, AN SSSR (Institut metallurgii AN SSSR) TITLE: Polygonization of austenite subjected to low temperature thermomechanical treatment SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 30-33 and appropriate insert facing p. 49 TOPIC TAGS: polygonization dendopment, stiel austinite steel, meetinicel modernt, high strength steel/15KhllMF steel, 15Khl2NMFA steel, 25Kh2GSNVM steel, 28Kh3SNMVFA steel ABSTRACT: The effect of polygonization annealing on the properties of superstrength steels subjected to low temperature thermomechanical treatment (LTMT) has been investigated. The schematic layout of the continuous process combining LTMT and polygonization annealing (Author Certificate 155161) is shown in Fig. 1. Specimens of 15Kh11MF; 15Kh12NMVFA; 25Kh2CSNVM, and 28Kh3SNMVFA; teels were heated to 1050, 1100 and 1200C and cooled in an air jet to 550C, at which temperature they were stretched by 30-37%, immediately rapidly reheated to 550-700C, kept at that temperature from 0 to 5000 sec (polygonization annealing), and then cooled in an air jet. It was found that polygonization annealing improved the strength only very Card 1/2 UDC: 621.789.669.14.018.85

L 02980-67 AP6032455 ACC NR: Fig. 1. Layout of continuous LTMT with polygonization annealing 1 - Inductor for recrystallization annealing; 2 - inductor for polygonization annealing; 3 - rolls. -1150-1200 Acı tn t q t m slightly, but greatly increased the ductility. For instance, conventionally heat treated 25Kh2GSVM and 28Kh3SNMVFA steels had a tensile strength of 190 kg/mm² and 198 kg/mm², and a reduction of area of 20% and 17%, respectively. The same steels, after LTMT but without polygonization, had a strength of 212 kg/mm² and 223 kg/mm², and a reduction of area of 26.8% and 26%, respectively. After polygonization annealing and a reduction of area of 26.8% and 26%, respectively. at 600C for 20-100 sec (optimal conditions), the strength was 217-218 kg/mm² and 225 kg/mm², and the reduction of area 36.6—38% and 34%, respectively. Orig. art. ham: 4 figures and 1 table. SUB CODE: 11/, SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 5099



PREOBRAZHENSKIY, N.G.; SENINA, A.V.; SENINA, S.V.

Calculating the function of a source for an optically dense plasma layer. Izv. vys. ucheb. zav.; fiz. 8 no.6:67-74 '65. (MIRA 19:1)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuzne-tsova. Submitted March 11, 1964.

KULIKOVSKIY, L.F.; STEPANYAN, A.A.; CHERNOV, S.Ye.; SENIN, B.A.

Device for measurement of drilling rates, lowering and hoisting of tools, and well-shaft drilling. Izv.vys.ucheb.zav.; neft' i gaz 5 no.12:87-92 '62. (MIRA 17:4)

1. Kuybyshevskiy politekhnicheskiy institut imeni Kuybysheva.

SENIN, G.; SMOLENOV, B. Visiting innovators of the Ural Machinery Factory. Nauka i zhizh' 23 no.8:31-34 Ag '56. (MERA 9:9) (Sverdlovsk--Machine tool industry)

The shortened workday is a great social benefit. Sots. turd 5 no. (MIRA 13:10)	† :
1. Zamestitel' predsedatelya Soveta ministrov USSR. (UkraineHours of labor)	

SENIN, I. Ye. Cand Agr Sci -- (diss) "Basic zootechnological measures for the reising of the production of milk in the suburban area of the city of Moskow."

Mos, 1959. 16 pp (All-Union Sci Res Inst of Animal Husbandry), 150 copies

(KL, 45-59, 148)

-71-

SENIN, I.Ye., kand. sel'khoz.nauk; MASHKINA, A., red.; KUZNETSOVA, A., tekhn. red.

[Pocket manual for the milkmaid]Karmannyi spravochnik doiarki.
Moskva, Mosk. rabochii, 1962. 110 p. (MIRA 16:2)
(Dairy cattle)

Sevin, M.D.

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3759

Author : M.M. Popov. M.D. Senin.

Inst :

Title : To the Question of UI, 2 UI + I Equilibrium.

Orig Pub: Zh. neorgan. khimii, 1957, 2, No 7, 1479-1481.

Abstract: The reaction UI₄ = UI₃ + I was investigated at 1097 to 1176°K by the method of freezing the equilibrium state and following analysis of dissociation products. The equilibrium constant K_p = P_I / P_UI₄ = 4.57. 10⁻² at 1097°K and 5.37. 10⁻² at 1176°K. The reaction heat of UI₃ (liquid) + I (gas) = UI₄ (gas) at 1136°K was computed to be 5.2 ± 0.7 kcal per mole, the maximum work at 1097°K A = 6.73 ± 0.05 and at 1176°K A = 6.83 ± 0.01 kcal per mole. The density of UI₂ was found to be d²⁷ = 6.38 per cub. cm, the melting point is 766.5 ± 1°C.

Card : 1/1

-9-

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001547920019-3"

AUTHORS:

Popov, M. M., (Deceased), Gal'chenko, G. L., Senin, M. D.

TITLE:

The True Specific Heat of UO₂, U₃O₈ and UO₃ at High Temperatures (Istinnyye teployemkosti UC₂, U₃O₈ i UO₃ pri vysokikh temperaturakh)

FERIODICAL:

Zhurnal neorganicheskoy khimii, 138, Vol. 3, Hr 8, pp. 1734-1737 (USSR)

ABOTRACT:

The determination of the true specific heat of finaly powdered samples of U_{0} , $U_{3}O_{8}$ and U_{0} was accomplished by the method of direct heating and by continuous addition of an exactly calculated quantity of heat by means of metallic and quartz calculated quantity of heat of $U_{3}O_{8}$ was determined quartz calculaters. The specific heat of $U_{3}O_{8}$ was determined in the platinum calorimeter. The rate of temperature of the interpolar heat is expressed by the following equations: true molar heat is expressed by the following equations: U_{0} at $160-603^{\circ}$ or $P_{3}=15,29+1,716\cdot10^{-2}$ $P_{3}=1,41\cdot10^{-5}$ $P_{3}=1,41\cdot10^{-5}$

Card 1/2

The True Specific Heat of UG₂, U₃G₈ and UG₃ at High Temperatures.

507/78-3-8-4/48

 $U_3^{0}_{8}$ at $400-600^{\circ}$ $C_{p}=64.25+1.582\cdot10^{-2}$ V_{γ} . U_3^{0} at $119-400^{\circ}$ $C_{p}=20.12+1.15\cdot10^{-2}$ $V_{\gamma}=4.36\cdot10^{-6}$.

There are 4 tables and 4 references, 1 of which is Soviet.

SUBMITTED:

February !5, 1958

Card 2/2

SENIN M.D. 89-3-15/30 Popov, M. M., (Deceased), Gagarinskiy, Yu. V., Senin, M. D., AUTHORS: Mikhalenko, I. P., Morozov, Yu. M.

The Mean β -Ray Energy and the Decay Constant of Tritium TITLE: (Srednyaya energiya β-chastits i postoyannaya raspada tritiya)

Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 297 - 298 (USSR) PERIODICAL:

First the apparatus is described by means of which uranium-ABSTRACT: -tritide is produced. The method of measurement (a calorimetric one) is described. The experiments furnished the fol-

lowing values: T 1/2 for H³: 12,58 \pm 0,18 a

: 5,52 <u>+</u> 0,01 KeV

There are 1 figure, 2 tables, and 6 references, 1 of which

is Slavic.

SUBMITTED: August 10, 1957

Card 1/2

89-3-15/30

The Mean $\,\,eta$ -Ray Energy and the Decay Constant of Tritium

AVAILABLE: Library of Congress

1. Tritium-Decay constant 2. Tritium- 8-Ray energy

Card 2/2

SOV/120-59-1-30/50

AUTHORS: Senin, M. D., Morozov, Yu. M., Karpova, T. F.

TITLE: Gas Balance with a Magnetic Arrester (Gazovyye vesy s magnitnym arretirom)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 125-127 (USSR)

In the determination of the isotopic composition of hydrogen or the density of radioactive gases by means of gas bal-ABSTRACT: ances (Refs 1-3) the gases under investigation may become contaminated by vacuum grease used in the seals of the arresting devices. The present paper describes quartz gas balances in which this disadvantage is removed. They are arrested by means of a permanent magnet. The sensitivity of the balance

is 4.4×10^{-8} g/cm³ (change in the density per scale division). The balance is illustrated in Fig 1. The balance beam 2 is 230 mm long and is prepared from fused quartz rods 1.5 mm in diameter. It is in the form of a very narrow triangle. A hollow quartz sphere is attached to one end of this triangle, In the working position the triangle rests on two corundum pins 13 as shown in Fig 1. The distance from the centre of the sphere to these pins is 95 mm. The weight of the sphere Card 1/2 is 1.6 g and its volume 29 cm3. It is balanced by a quartz

CIA-RDP86-00513R001547920019-3"

APPROVED FOR RELEASE: 08/09/2001

SOV/120-59-1-30/50

Gas Balance with a Magnetic Arrester

sphere bearing a pointer. The total weight of the beam is 5 g. The balance is brought into action by the arrester lever 14 which rests on two supports 3. The arrester is operated by means of an external magnet. There are 2 figures and 10 references, of which 3 are German, 2 are Soviet and the rest are English.

SUBMITTED: January 8, 1958.

Card 2/2

507/78-4-6-5/44 Popov, M. M. (Deceased), Gal'chenko, G. L., Senin, M. D. 5(4)

AUTHORS:

Heat The Specific Λ and the Heat of Fusion of UCl $_4$ and UJ $_4$, and the Transformation Heat of UJ $_4$ TITLE:

(Teployemkosti i teploty plavleniya UCl₄ i UJ₄, teplota

prevrashcheniya UJ,

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1241-1245 PERIODICAL:

(USSR)

The specific heat, the heat of funsion of UCl4 and UJ4, and the ABSTRACT:

transformation heat of UJ_4 were determined. The investigation results are given in tables 1 and 2. The initial material for UCl, and UJ, was produced by chlorination or iodizing of uranium salts of uranium metals. The results concerning the

apparent specific heat of UJ₄ are given in table 3 and

figure 2. The specific heat of UJ₄ changes anomalously in a

temperature interval of from 453-528°, the polymorphous transformation takes place in a temperature interval of from 453-505°

Card 1/2

The Specific Heat and the Heat of Resion of UCl $_4$ and UJ $_4$, and the Transformation Heat of UJ $_4$

The transformation heat for UJ $_4$ amounts to 3526 \pm 58 cal/mol. The melting heats of UCl $_4$ and UJ $_4$ amount to 11938 \pm 22- and 5637 \pm 100 cal/mol. There are 2 figures, 5 tables, and 7 references, 5 of which are Soviet.

SUBMITTED: March 25, 1958

Card 2/2

CIA-RDP86-00513R001547920019-3 "APPROVED FOR RELEASE: 08/09/2001

AUTHORS:

30-58-4-9/44 Iovchuk, M. T., Corresponding Member of

the Academy of Sciences of the USSR,

Senin, N. G., Candidate of Philosophical Sciences

TITLE:

Cooperation of Chinese and Soviet Philosophy-Historians

(Sotrudnichestvo kitayskikh i sovetskikh istorikov

filosofii)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958, , Nr 4,

pp. 58-65 (USSR)

ABSTRACT:

In the last years Soviet and Chinese scientifists established close contact in philosophy. An exchange of

scientific literature and research experience was

introduced. There is also given mutual help in the education of the supply of scientific personal. In order to investigate the centuries-old Chinese philosophical history the efforts of the scientists of the Institute for Philosophy of the Academy of Sciences of the USSR and of the recently founded Institute for Philosophy of the Academy of Sciences of the KNR are united and coordinated.

A group of Chinese scientists consisting of the professors Fyn Din (head of the delegation), Zhen' Tszi-yuy, Khe Lin

Card 1/4

Cooperation of Chinese and Soviet Philosophy-Historians 30-58-4-9/44

and the Second Director of the Institute for Philosophy of the Academy of Sciences of the KNR Chzhan Yun visited the Soviet Union and established contacts with the specialists for philosophy of the Academy of Sciences of the USSR, the Academy of Sciences of the Ukrainian SSR, the Moscow, Leningrad and Kiyev universities. The Soviet Historians of Chinese philosophy (Yan Kin-sun and N. G. Senin), visited China. Chinese and Soviet philosophy historians together prepared in the years 1954-1957 for the already published two volumes of the history of philosophy parts on the history of eastern philosophy of the slaveholder- and feudal societies, as well as on the period of the decadence of the feudal connections in the eastern countries (up to about 1870). The Institute for Philosophy of the Academy of Sciences of the USSR in the year 1957 together with a group of Chinese scientists, who had come to the USSR, held a scientific meeting on problems of the eastern history of philosophy where they dealt with the reports by Zhen'Tszi-yuy, M. T. Iovchuk, N. G. Senin. The Soviet philosophy historians Ya. B. Radul'Zatulovskiy, Yan-Khin-shun and I. Ya. Shchipanov took part in this

Card 2/4

Cooperation of Chinese and Soviet Philosophy-Historians 30-5-4-9/44

conference. As to publish an encyclopedia "Classic Chinese Philosphy" in Chinese and Russian language there was formed a Chinese-Soviet editorial commission presided by Pan' Tszy-nya, Director of the Institute for Philosophy of the Academy of Sciences of the KNR. Of great help therefore are the works of the President of the Academy of Sciences of the KNR Go Mo-zho, as well as those by the Chinese scientists Khou Vay-lu, Lyuy Chzhen-yu, Yan Yun-go and others. There are also mentioned the works by the Soviet Members of the Academy I. P. Minayev, F. I. Shcherbatskiy, S. F. Ol'denburg, B. A, Turayev, I. Ku. Krachkovskiy, V. M. Alekseyev, A. P. Barannikov, the Corresponding Member of the Academy of Sciences of the USSR. Ye. E. Bertel's and others. In the lost 10-15 years in the Soviet Union works about eastern history of philosophy were published by N. I. Konrad, A. O. Makovel'skiy, Ya. B. Radul'-Zatulovskiy, A. A. Petrov, Yu. P. Frants, Yan Khin-shun, N. P, Anikeyev, in which the opinion is condemned that only European countries may be regards as native places of philosophy, Since the beginning of the year 1957 a large scientific discussion about arose in Peking the

Card 3/4

Cooperation of Chinese and Soviet Philosophy-Historians 36-58 4-9/44

the questions in dispute on which Zhen' Tszi-yuy reported at the meeting of the Institute for Philosophy of the Academy of Sciences of the USSR and which are described in detail. In Summer 1957 in Peking a second discussion of these problems took place. The Soviet and Chinese scientists have to meet with the problem of composing a history of the eastern philosophy of the second half of the nineteenth, as well as of the first half od the twentieth century. Nevertheless to point out the historical evolution of the development of Marxist philosophy in China after the October revolution and its struggle against idealism is called a much more important task.

: 1. Intellectual cooperation—China 2. Intellectual cooperation—USSR 3. Philosophy—China

Card 4/4

KARPACHEVA, S.M., doktor khim. nauk; MEDVENEV, S.F., inzh.; SENIN, P.T., inzh.;

ZAKHAROV, Ye.I., inzh.

Efficiency of packed extraction towers and sectional columns.

Khim. mash. no.4:10-13 JI-Ag '59. (MIRA 12:12)

(Packed towers)

SENIN, V.G.; DOBROKHCTOV, A.A.

Increasing the durability of the lower section of open-hearth
furnaces. Metallurg 10 no.8:19-20 Ag '64.

(MIRA 17:11)

1. Chelyabinskiy metallurgicheskiy zavod.

SENIN, V.P.

ZOLOTAREV, V.I.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVYANTSEV, L.A.; PEKSHEV, Yu.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVYANTSEV, L.A.; ZYKOV, A.A.; NETHUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, F.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Development of the economy of the people's democracies; a survey for 1957] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red.N.I.Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1958. 610 p. (MIRA 12:2)

1. Moscow. Nauchne-issledovat. kon yunkturnyy institut.
(People's democracies) (Economic conditions)

ZCLOTAREV, V.I.; PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENEV, Yu.M.; KISVYANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; ZYKOV, A.A.; SEHIH, Y.P.; NETHUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKOV, N.N.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; survey for 1958] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1958 g. Pod red.M.I.Sladkovskogo i dr. Moskva, Izd-vo sotsial'no-ekon.lit-ry. 1959. 358 p. (MIRA 13:7)

1. Moscow. Neuchno-issledovatel'skiy kon"yunkturnyy institut. (Communist countries--Economic conditions)

KAPELINSKIY, Yu.N., kand.ekonom.nauk; KISVYANTSEV, L.A.; PANKIN, M.S.; PEKSHEV, Yu.A., kand.ekonom.nauk; SENIN, V.P.; SYCHEV, V.G.; FIGURNOV, P.K., prof., red.; SLADKOVSKIY, M.I., dcktor ekonom.nauk, red.; LEVITAN, I.M., red.izd-va; PAVLOVSKIY, A.A., tekhn.red.

[Growth of the economy and the foreign commerce of the Chinese People's Republic] Razvitie ekonomiki i vneshneekonomicheskikh sviazei Kitaiskoi Narodnoi Respubliki. Moskva, Vneshtorgizdat, 1959. 559 p. (MIRA 12:6) (China--Economic conditions) (China--Commerce)

AUTHOR:

Senin, V.S.

SOV/115-58-6-24/43

TITLE:

Experience Gained in Measuring the Temperature of a Liquid by Means of Semiconductor Thermistors (Opyt izmereniya temperatury zhidkosti pri pomoshchi poluprovodnikovykh termo-

soprotivleniy)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 6, pp 59-60 (USSR)

ABSTRACT:

have a higher sensitivity than Semiconductor thermistors thermocouples or metal resistance thermometers. It reaches 2-6 % of the initial resistance per 1°C temperature change. The Soviet thermistor T8R was experimentally used to measure the temperature of a liquid. It has a resistance of 500-700 ohms at 20 $^{\circ}$ C. The temperature coefficient is 3-4 % per 1 $^{\circ}$ C. The measured temperatures range from -100 to +120 $^{\circ}$ C. The installation of the temperature transducer in the liquid is shown by Figure 1. For recording, an automatic electronic recording bridge type EMP-209, produced by the plant "Lenteplopribor" is used. The squared average error of measurement does not exceed $\pm 0.5^{\circ}$ C.

There are 2 diagrams, 1 graph and 4 Soviet references.

Card 1/1

9(4) AUTHOR:

Senin, V.S., Engineer

SOV/119-59-9-6/19

TITLE:

Semiconductor The Application of $\sqrt{ ext{T}}$ thermistors in Appliances for the Measurement

of the Temperature .

PERIODICAL:

Priborostroyeniye, 1959, Nr 9, pp 15-17 (USSR)

ABSTRACT:

The significant temperature dependence and the small dimensions (as little as some tenths of a millimeter) of the resistance of thermistors render them particularly valuable for use in temperature primary elements. The temperature coefficient α_m of the

semiconductor thermocouple elements is negative, attaining 5 to 6% (on raising the temperature by 10) of the nominal value of the "cold" resistance. Contrary to metals the thermistors have a nonlinear temperature dependence. The temperature characteristic of thermistors in the temperature interval -60 - + 1200 C may be

expressed by the relation

 R_{m} = Ae $^{\rm B/T}$ with sufficient accuracy. In this expression R_{m} denotes the resistance of the operating body of the thermistor at a given temperature in ohm, T the temperature in degrees Kelvin; A and B coefficients which are constant for a given

Card 1/3

Semiconductor
The Application of Thermistors in Appliances for the SOV/119-59-9-6/19
Measurement of the Temperature

thermistor. The temperature coefficient \propto_T for the temperature T is expressed by formula $\propto_T = -B/T^2$.

Some data on thermistors applicable for temperature measurement are given in a table. The instrument has a nonlinear scale for direct reading of the temperature. In order to linearize this scale, the thermistor is shunted. In some cases this is also insufficient, and a further resistor has to be added. Linearizing the characteristic of the thermistor of course also reduces the sensitivity. The second diagram shows the temperature dependence of the resistance for the thermistor TSh-1 for different values of shunt. For the calculation of temperature measuring instruments it is necessary to know not only the temperature dependence of the thermistor, but also the currentvoltage characteristic of the thermistor. It is this currentvoltage characteristic which is decisive for the choice of the working point. An operating current of 70 to 100 microampere is used for the thermistors TOR and TSh-1. Thermistors are applied, for example, for the measurement of the temperature of a liquid in experiments involving a temperature variation of the liquid

Card 2/3

Semiconductor
The Application of Thermistors in Appliances for the Measurement of the Temperature

SOV/119-59-9-6/19

from -20 to $+100^{\circ}$ C. The persistancy of this device amounted to 5 to 60 sec , the distance between the object to be measured and the instrument desk being approximately 20 m. Open thermistors of the types TSh-1 and T8R (without protective glass balloon) were used as primary elements. The construction of these primary elements, which is fairly simple, is described briefly. The most suitable circuit diagram for the primary element is that of an unbalanced Wheatstone bridge. This diagram is simple and reliable in operation. A figure gives the calibration curves of the primary elements with the thermistors type TSh-1 and T8R. These calibration curves are practically linear over the whole temperature interval. The instrument discussed here can be applied in various fields of machine construction (especially the testing of machines) as well as in the chemical-, the food-, or the medical industry. There are 7 figures, 1 table, and 6 references, 5 of which are Soviet.

Card 3/3

KASPIROVICH, V. I.; SENIN, V. S.

Changing the measurement limit of the EPP-09 automatic recording electronic potentiometer. Priborostroenie no.8:25 Ag !60.

(MIRA 13:9)

(Potentiometer)

SENIN, V. I.

ACCURATE AND ACCUSATION OF THE PROPERTY OF THE

Cand Agr Sci - (diss) "Periods, standards, and methods of fertilizing young plantings of apples in the south-eastern oblasts of the Ukraine." Kishinev, 1961. 20 pp; with diagrams; (Kishinev Agr Inst imeni M. V.Frunze); 150 copies; price not given; (KL, 7-61 sup,252)

			7	
ACC NRI ARBULIDAI		UR/0169/66/000/0		
AUTHOR: Parkhomovskiy, O.A.; Andreyeva, I Grigor'yeva, A.I.; Ivanets, N.I.; Ivanyut;		vskiy, LiYe. Gond ar, L.T.; Raykher	harova, T.A.; , L.D.;	11.9
Senina, A.S.; Trachenko, Zh. Ta., Lorent	level of the			
logical prospecting for oil and gas in the SCURCE: Ref. zh. Geofizika, Abs. 1097	C ONZUZIIO		• • • • • • • • • • • • • • • • • • •	
DER SOURCE. Tr. Ukr. ni. geologorazved	i. in-t, vyp	10, 1965, 10-17	rospective. 1	
TOPIC TAGS: prospecting, seismic prospecting, magnetometer,				
ABSTRACT: Geological-geophysical prospec				
was 46.4 roubles/km ² . The output and pre-	cision of the complete. T	e aeromagnetic sur he cost of the to	tal survey was	
92.2 roubles per km in 1960 and 47.2 roubles per km in 1960 and 47.2 roubles of the electro-recon method, and its mob development in the Ukraine. Volume of se	nomalies. In	spite of the rein	ed the deserved	
development in the unitarities volumes		UDC: 550.830		_
Card 1/2	व १८१९ अस्त्राहरण्यक्षेत्रसम् व्यक्ति	granden der ergebanden der der eine der	ere vot i	1

seismic re and design tural map	volume. Cost of 1 km econstructing instrum n of boring sections. ping boring are very vels. On the basis of gy for the recon of c	has been develop high; those of	ped. Techno-econostructural-recon	mical indices of si boring are at relations of each method.	truc-
SUB CODE:	08		· .		
			:	• •	
			•		
	•				
Card 2/2	mte	•			

E STATE		
-		P _E
97. 5.		
L	15545-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) IJP(c) AT AP6002083 SOURCE CODE: UR/0139/65/000/006/0067/0074	
	ACC NR: AP6002083 SOURCE CODE: UR/013970370007	
****** #	AUTHORS: Preobrazhenskiy, N. G.; Senina, A. V.; Senina, S. V.	
3	ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-tekhnicheskiy institut)	
	TITLE: Calculation of the source function for an optically dense	A. Liber
) and the	plasma laver 2/14/15 5	
	SOURCE: IVJZ. Fizika, no. 6, 1965, 67-74	
	radiation, spectral line, plasma density,	
	variational method, open	(1) (2) (2)
	ABSTRACT: In view of the importance of the knowledge of the source	14 177 187
	function for the catral lines and of the total energy total develop-	
	of the emitted spectrum, and in view of the incomine certain	
	of the emitted spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain ment of methods of finding this function, the authors describe certain ment of methods of finding this function of the source function with characteristic features of the calculation of the source function with characteristic features of the calculation of the incomplete certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum, and in view of the incomplete describe certain plasma in a discrete spectrum plasma in a discrete spect	
10 m	ment of methods of finding the calculation of the source fund of the characteristic features of the calculation of the source fund of the characteristic features of the calculation of the source fund of the characteristic features of the calculation of the source fund of the calculation of the cal	
	Card 1/2	意
<u> </u>		

L 15545-66

ACC NR: AP6002083

dense plasma. Special attention is paid to the dependence of this function on the frequency and on the optical thickness of the layer, and the accuracy of the variational procedure. Methods of calculating the line contour with allowance for deviations from the Maxwellian distribution and for the contribution made by various interaction processes and correlations to the broadening are presented. An expression is derived for the density as a function of the optical transmission of the layer, for the case of contours of the Doppler, dispersion, Voigt, and 'statistical-wing' type. Although the errors of the method are appreciable, they do not exceed 100 per cent, and better accuracy is expected when the choice of trial functions is made more precise. This will be the subject of a separate article. Orig. art. has: 2 figures and 28 formulas.

SUB CODE: 20/ SUBM DATE: 11Mar64/ ORIG REF: 008/ OTH REF: 006

Card 2/2

ACC NR: AP6008109 SOURCE CODE: UR/0139/66/000/001/0042/0047

AUTHOR: Preobrazhenskiy, N. G.; Senina, S. V.; Senina, A. V.

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fizikotekhnicheskiy institut)

TITLE: On the time of longitudinal relaxation of oriented atoms

SOURCE: IVUZ. Fizika, no. 1, 1966, 42-47

TOPIC TAGS: relaxation process, Zeeman effect, optic spectrum, hyperfine structure

ABSTRACT: The authors present a detailed derivation of expressions for the time of longitudinal relaxation of a system of optically oriented atoms contained in a cell of cylindrical or spherical configuration. The derivation is based on the quantum theory of optical orientation, whereby the longitudinal relaxation is described with the aid of a density-matrix formalism. The results show that the formulas de-

of cylindrical or spherical configuration. The derivation is based on the quantum theory of optical orientation, whereby the longitudinal relaxation is described with the aid of a density-matrix formalism. The results show that the formulas derived for the relaxation times can be useful not only to investigate relaxation processes in the radio frequency of the spectrum (set of Zeeman or hyperfine sublevels), but also in optical spectroscopy (pair of levels connected with magnetic-dipole transition). Other possible applications of the results are briefly discussed. Orig. art. has: 41 formulas.

SUB CODE: 20/

SUBM DATE: 11Mar64/

ORIG REF: 001/

OTH REF: 005

SENINA, G.

Minima of RZ Cassiopeiae and WW Aurigae. Astron.tsir. no.215:17-18 0 '60. (MIRA 14:3)

1. Kafedra astoronomii Kazanskogo gosudarstvennogo universiteta. (Stars, Variable)

\$/079/60/030/05/60/074 B005/B125

5.3200 AUTHORS:

Bogoyavlenskiy, A. F., Senina, L. N.

TITLE:

The Interaction Between 2,4-Dinitro Phenol and Thiourea

Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1684-1685 PERIODICAL:

TEXT; The authors of the present report investigated the system 2,4-dinitro phenol - thiourea with the aid of thermal analysis. The industrial 2,4-dinitro phenol used crystallized after double recrystallization from acetone in the form of rhombic prisms with a melting point of 1130. The thiourea used (analytically pure) had a melting point of 1720 after double recrystallization from alcohol. The melting points in the system studied were determined by a visual capillary method. Fig. 1 shows the melting diagram of the system studied. Two chemical compounds form in the system: $c_{6}^{H_{3}(NO_{2})_{2}OH_{3}CS(NH_{2})_{2}}$ (I) (melting point 165°) and 4 $c_{6}^{H_{3}(NO_{2})_{2}OH_{3}CS(NH_{2})_{2}}$ (II) (melting point 118°). Three corresponding eutectic mixtures occur with the melting points 90°, 110°, and 155°. Both chemical compounds mentioned belong to the berthollide type. They differ in their crystal structures

Card 1/2

CIA-RDP86-00513R001547920019-3"

APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001547920019-3

气710

The Interaction Between 2,4-Dinitro Phenol and Thiourea

S/079/60/030/05/60/074 B005/B125

and colorations. The compound (II) crystallizes in the form of long needles, which are orange in color; whereas compound (I) solidifies in the form of extraordinarily small crystals yellow in color. Figs. 2-5 show microlayers of the compounds (I) and (II) and of both initial products, 2,4-dinitro phenol and thiourea. In the carrying out of the thermal analysis no evolution of gas occurred in the system under investigation, as would be characteristic of the formation of dinitro aniline in the fusion of thiourea and 2,4-dinitro phenol. This behavior is in contrast to the reaction of 2,4-dinitro phenol with urea, in which dinitro aniline forms. There are 5 figures and 6 references, 4 of which are Soviet.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan' Institute of Aviation)

SUBMITTED: March 12, 1959

X

Card 2/2

SENINA, R.M.; YURKOVA, M.I.; KOKHTEV, A.A., inzhener, redaktor; BOB-ROVA, Ye.N., tekhnicheskiy redaktor.

[High-precision casting of measuring instrument parts; experience of the "Kalibr" plant] Vysokotochnoe lit'e detalei izmeritel'nogo instrumenta; opyt zavoda "Kalibr." Moskva, Gos. nauchno-tekhn. izdvo mashinostroit. lit-ry, 1951. 41 p. (MIRA 8:2) (Measuring instruments) (Die casting)

RAKOVSKIY, V.Ye. doktor tekhn.nauk; RIVKINA, Kh.I., kand.tekhn.nauk; SENINA, R.M., inzh.; TKACHENKO, K.M., KANd. tekhn.nauk.

Peat bitumens in molding compounds for precision casting. Torf. prom. 35 no.6:3-6 '58. (MIRA 11:10)

1. Moskovskiy torfyanoy institut. (for Rakovskiy, Rivkina). 2. Nauchnoissledovatel'skiy institut liteynogo mashinostroyeniya (for Senina, Tkachenko).

(Precision casting) (Bitumen)

SOV/128-59-7-15/25

Rakovskiy, V.E., Doctor of Technical Sciences and 18(5) Tkachenko, K.M. and Rivkina, Kh. I., Candidates of Technical Sciences and Senina, R.M., Engineer AUTHOR:

TITLE:

Peat Bitumens in Pattern Materials for Precision

Casting

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 7, pp 35-37 (USSR)

ABSTRACT:

The propagation of the precision casting method with flushed out patterns depends also on the existence of cheap and available materials with the necessary properties. In the USSE, a mixture of paraffine and glyceric stearate is used which however does not have all the necessary qualities. The authors have tried to substitute the glyceric stearate by peat bitumen. For industrial purposes only peat with the highest contents of bitumen can be used. Of great importance too is the solvent used. The authors suggest benzine or benzole. In several tables the results of the

Card 1/2

CIA-RDP86-00513R001547920019-3"

APPROVED FOR RELEASE: 08/09/2001

30V/128-59-7-15/25

Peat Bitumens in Pattern Materials for Precision

Casting

experiments at the laboratory of MIITAvioprom are given. They have been made with a paraffine-bitumen mixture of 70:30 mix ratio. The foundry experiments had been executed by means of a pressure die casting machine, design M.L. Henkin. This machine proved not to be suitable for this work. The machine has been improved by increasing the number of revolutions from 135 rpm to 200 rpm. The authors have also made shop experiments at Krasnogorsk. They made the introduction of a new component necessary, i.e. ceresine and colophony (BPZK in a rate of 5:2:2:1 or BPZ in a rate of 5:3:2). Both mixes can be used for precision investment casting, even during summer and in areas with high temperatures. There are 7 tables and 1 diagram

Card 2/2

KOVALEVSKIY, I.I., kand. tekhn. nauk; prinyali uchastiye: MERINOV, N.A., inzh.; LEVIN, V.B., inzh.; SENINA, R.V., tekhnik; LERNER, B.N., kand. tekhn. nauk; PRAVOVEROV, K.N., kand. tekhn. nauk; SOSNIN, Yu.P., kand. tekhn. nauk, red.; NINEMYAGI, D.K., red. izd-va; OSENKO, L.M., tekhn. red.

[Album of heating furnaces and stoves] Al'bom otopitel'nykh i bytovykh pechei. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam. Pt.1. [Heating furnaces] Pechi otopitel'nye. 1961. 85 p. (MIRA 14:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut po stroitel'stvu, Rostov-on-Don. 2. Laboratoriya otopitel'nykh pechey i ochagov nauchno-issledovatel'skogo instituta sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR (for Merinov, Levin, Senina). 3. Laboratoriya otopleniya i ventilyatsii Instituta po stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (Rostov-na-Donu) (for Kovalevskiy). 4. Akademiya kommunal'nogo khozyaystva RSFSR imeni K.D.Pamfilova (for Lerner, Pravoverov)

TROITSKAYA, F.B.: SENERA, R.V.

Small cast iron heating boilers operating on gas fuel. Sbor.
trud. NIIST no.14:3-17 '63. (MIFA 17:10)

PREOBRAZHENSKIY, N.G.; SENINA, A.V.; SENINA, S.V.

Calculating the function of a source for an optically dense plasma layer. Izv. vys. ucheb. zav.; fiz. 8 no.6:67-74 165. (MIRA 19:1)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuzne-tsova. Submitted March 11, 1964.

L 23751-66 EVT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG

ACC NR: AP6008109 SOURCE CODE: UR/0139/66/000/001/0042/0047

AUTHOR: Preobrazhenskiy, N. G.; Senina, S. V.; Senina, A. V.

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko

tekhnicheskiy institut)

TITLE: On the time of longitudinal relaxation of oriented atoms

SOURCE: IVUZ. Fizika, no. 1, 1966, 42-47

TOPIC TAGS: relaxation process, Zeeman effect, optic spectrum, hyperfine structure

ABSTRACT: The authors present a detailed derivation of expressions for the time of longitudinal relaxation of a system of optically oriented atoms contained in a cell of cylindrical or spherical configuration. The derivation is based on the quantum theory of optical orientation, whereby the longitudinal relaxation is described with the aid of a density-matrix formalism. The results show that the formulas derived for the relaxation times can be useful not only to investigate relaxation processes in the radio frequency of the spectrum (set of Zeeman or hyperfine sublevels), but also in optical spectroscopy (pair of levels connected with magnetic-dipole transition). Other possible applications of the results are briefly discussed. Orig. art. has: 41 formulas.

SUB CODE: 20/ SUBM DATE: 11Mar64/ ORIG REF: 001/ OTH REF: 005

Card 1/1006

	N 527
L 22474-66 EWT(1)/EEC(k)-2/T/EWP(k) LJP(c) WG ACC NR: AP6009146 SOURCE CODE: UR/0139/65/000/005/0073/0076	
AUTHORS: Preobrazhenskiy, N. G.; Senina, S. V.	
ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-tekhnicheskiy institut)	
TITLE: On the influence of surface inhibitors on the relaxation time of oriented atoms	
SOURCE: IVUZ. Fizika, no. 5, 1965, 73-76	
TOPIC TAGS: relaxation process, surface while, nuclear resonance	
ABSTRACT: This is a continuation of earlier work by the authors (Opt. i spectr. v. 17, 809, 1964), aimed at developing a theory capable of simultaneously taking into account the influence exerted on the relaxation time of the characteristics of either a buffer gas or the relaxation time of the characteristics of the double radio-optical a surface inhibitor, used in applications of the double radio-optical resonance method. In view of recent publication of data by R. Brewer (J. Chem. Phys. v. 38, 3015, 1963, and earlier), and in view of the	2
Card 1/2	

L 22474-66

ACC NR: AP6009146

fact that the earlier study was restricted by the lack of experimental data, the authors review their earlier work, as well as work by others, and calculate the diffusion of oriented atoms in a cell of cylindrical or spherical configuration, and especially the probability of disorientation occurring when the atom collides with a cell wall which is coated with an inhibitor. This probability is expressed in terms of a Hamiltonian, which in turn is approximated by means of a theory developed by J. Van Vleck (Rev. Mod. Phys. v. 23, 213, 19°1). The final results obtained for this probability are in good agreement with recent experimental data. Although the results of the present article cannot be regarded as a relaxation theory that can take into account both the effect of a buffer gas and of an inhibitor, it is claimed that they contribute to a better understanding of the problem. Orig. art. has: 14 formulas.

SUB CODE: 20/ SUBM DATE: 14Mar64/ ORIG REF: 001/ OTH REF: 013

Card 2/2 BK

ŗ			
Action.	· · · · ·		
A Comment	<u>L :</u>	15545-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) IJP(c) AT AGC NR: AP6002083 SOURCE CODE: UR/0139/65/000/006/0067/0074	
		AUTHORS: Preobrazhenskiy, N. G.; Senina, A. V.; Senina, S. V.	
		ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov	
		TITIE: Calculation of the source function for an optically dense plasma layer 21, 41, 5	
	-	GOUNGE: TWIZ Fizika, no. 6, 1965, 67-74	
		TOPIC TAGS: plasma radiation, spectral line, plasma density, variational method, optic density	
		ABSTRACT: In view of the importance of the knowledge of the source ABSTRACT: In view of the importance of the knowledge of the source and integral intensities	
		of the emitted spectral in view of the incomplete devoter	San at layer
		ment of methods of finding this function, the authors described ment of methods of finding this function, the authors described ment of methods of finding this function, the authors described with method for an inhomogeneous optically the aid of the Ritz variational method, for an inhomogeneous optically the aid of the Ritz variational method, for an inhomogeneous optically	
		Card 1/2	
-	- 10	Terretoreture terretu. En estado destado estado estado estado estado estado estado estado estado estado estado Terretoreture terretor Estado de Companyo de Companyo estado estado estado estado estado estado estado estado e	

545-66		
dense plasma. Special attention is paid to the dependence of this function on the frequency and on the optical thickness of the layer, and the accuracy of the variational procedure. Methods of calculating the line contour with allowance for deviations from the Maxwellian the line contour with allowance for deviations from the maxwellian distribution and for the contribution made by various interaction distribution and correlations to the broadening are presented. An expression is derived for the density as a function of the optical pression is derived for the density as a function of the Doppler, transmission of the layer, for the case of contours of the Doppler, dispersion, Voigt, and 'statistical-wing' type. Although the errors of the method are appreciable, they do not exceed 100 per cent, and better accuracy is expected when the choice of trial functions is made more precise. This will be the subject of a separate article. Orig. art. has: 2 figures and 28 formulas.	3	
SUB CODE: 20/ SUBM DATE: 11Mar64/ ORIG REF: 008/ OTH REF: 006		
Card 2/2		

DRANKIN, D.I., SEHIMA, Z.F.

Epidemiology of parotitis. Zhur.mikrcbiol., epid. i :mmun.
(MIRA 19:1)

1. Novokuznetskiy institut usovershenstvovaniya vrachey i
Novokuznetskaya gorodskaya sanitarno-epidemiologicheskaya
stantsiya.

MARTYMOWICZ, Tadeusz: SENIOW, Adam (Wroclaw)

Proteins in chick blood serum during experimental infection with Eimeria tenella. Wiadomosci parazyt., Warsz. 2 no. 5 Suppl:263-264 1956.

1. Katedra Parazytologii i Chorob Inwazyjnych WSR. i Zaklad Fizjologii Zwierzat Uniw. im. B. Bieruta.

(EIMERIA, infections, tenellum in chicks, blood proteins in (Pol))

(BLOOD PROTEINS, in various diseases, exper. Eimeria tenellum infect. in chicks (Pol))

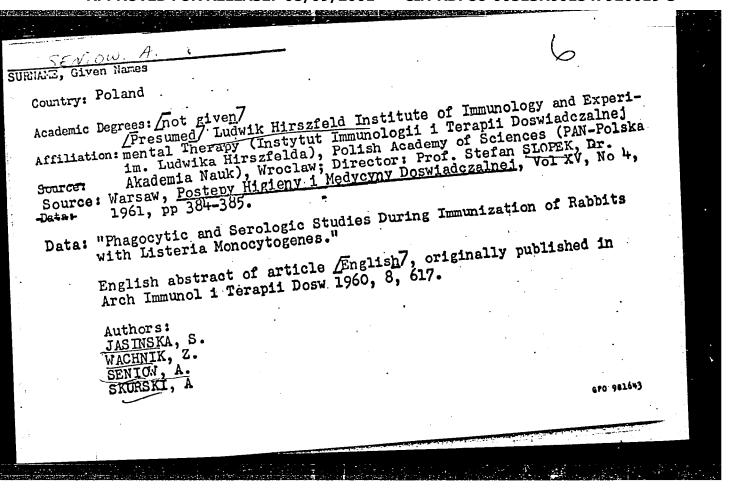
SENIOW, Adam

Changes in the electrophoretic spectre of blood serum proteins of rabbits in the course of trichinellosis. Wiadomosci parazyt. 6 no.4:331-334 '60.

1. Department of Parasitology, Veterinary Faculty, Wroclaw, Poland.
(TRICHINOSIS blood)
(BLOOD PROTEINS)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001547920019-3

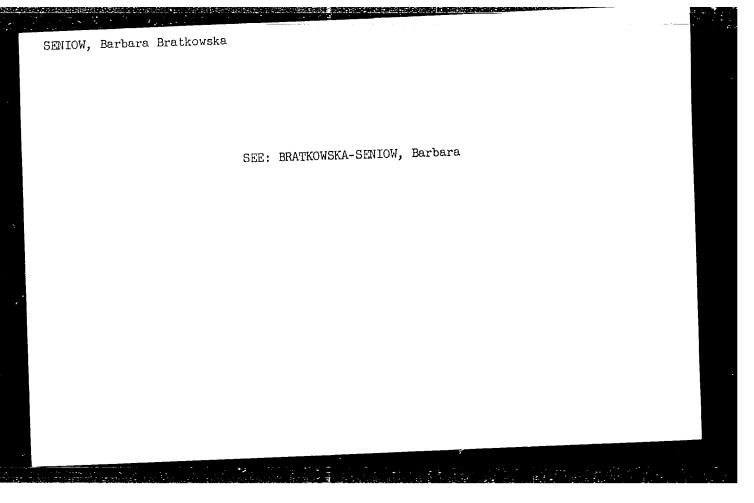


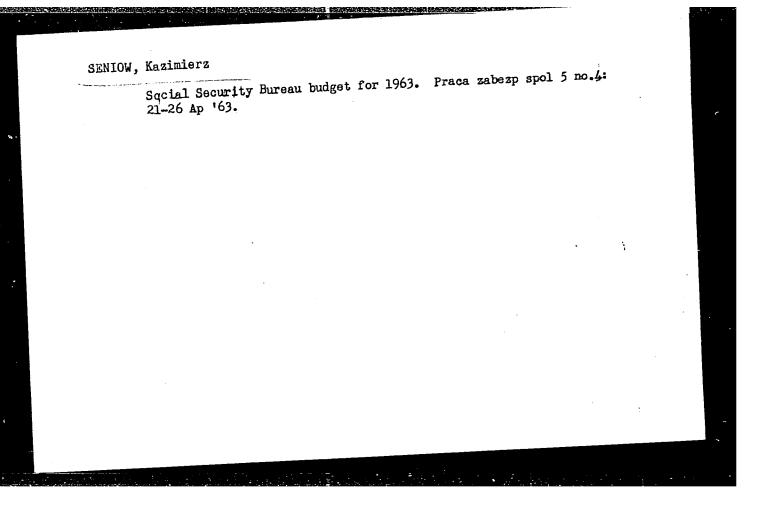
JASINSKA, Stanislawa; WACHNIK, Zenon, SENIOW, Adam; SKURSKI, Adam

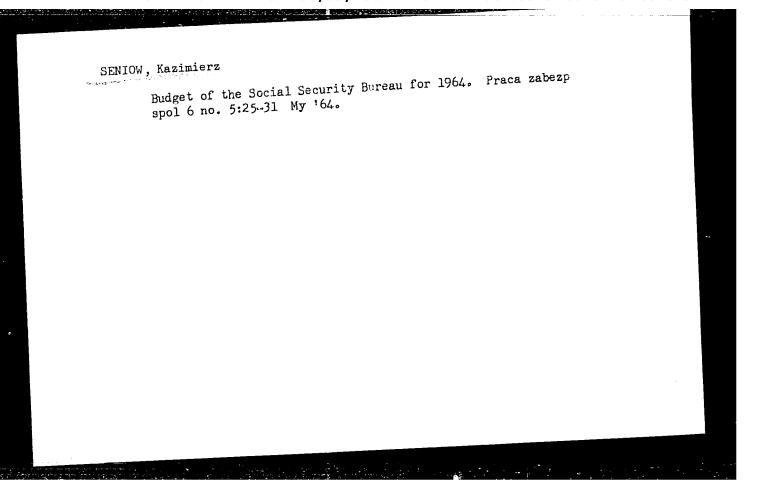
Phagocytic and serological studies in the course of immunization of rabbits with listeria monocytogenes. Arch.immun.ter.dosw. 8 no.4:617-629 160.

1. Department of Veterinary Microbiology, Department of Infectious Diseases, Department of Parasitology, High Agriculture School, Wroclaw.

(LISTERIA MONOCYTOGENES immunol)







SEMIOW, Stefania

Effect of parenteral protein therapy on parenchymal diseases of the kidneys. Polskie arch. med. wewn. 26 no.8:1209-1214 1956.

1. Z I Kliniki Chorob Wewn. A.M. w Warszawie, Kier. prof. dr. nauk med. A. Biernacki, Warszawa, ul. Nowogrodzka 59, I Klinika Chorob Wewn. A.M.

(KIDNEY DISEASES, therapy,
proteins, parenteral admin. (Pol))
(PROTEINS, therapeutic use,
kidney dis., parenteral admin. (Pol))

SENIOW, Stefania

Transfusion of blood and plasma in the treatment of blood protein disorder. Polskie arch. med. wewn. 26 no.12:1843-1846 1956.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Warszawie
Kierownik: prof. dr. nauk med. A. Biernacki. Warszawa,
Nowogrodzka 59. I Klinika Chorob Wewnetrznych.

(BLOOD PROTEINS

disord., ther., blood transfusion (Pol))
(BLOOD TRANSFUSION, in various dis.
blood protein disord. (Pol))

SENIOW, Stefania

Certain problems of the dynamic equilibrium of systemic proteins, with special refer nce to dehydration states. Polskie arch.med. wewn. 28 no.4:524-525 1958.

1. Z I Kliniki Chorob Wewn. A.M. w Warszawie. Kierownik: prof. dr med. A. Biernacki. (DEHYDRATION, blood in proteins (Pol)) (BLOOD PROTEINS, in various dis. dehydration (Pol))

BORKOWSKI, Maciej; KAMINSKI, Bogdan; SENIOW, Stefania; SZCZERBAN, Jerzy

Regeneration of the liver following partial resection of its parenchyma.

Polski tygod. lek. 14 no.47:2057-2064 23 Nov 59.

1. (Z Zaklady Chirurgii Doswiadczalnej Polskiej Akademii Nauk: kierownik: doc. dr Jan Nielubowicz)
(LIVER, physiol.) (RECENERATION)

SENIOW, Stefania; FALDA, Zbigniew

NOT REMAIN THE THE PROPERTY OF THE PROPERTY OF

Case of sprue syndrome related to Lamblia intestinalis. Polskie arch.med.wewn. 29 no.5:671-675 159.

1. Z I Kliniki Chorob Wewnetrznych A. M. w Warszawie Kierownik: prof. dr nauk med. A.Biernacki.

(GIARDIASIS compl.)

(SPRUE etiol.)

SENIOW, Stefania; OSTROWSKI, Kazimierz

Disorders of protein and fat metabolism during the course of vascular complications of diabetes (diabetic angiopathy). Polskie arch. med; wewn. 31 no.12:1607-1616 '61.

1. Z III Kliniki Chorob Wewnetrznych AM w Warszawie Kierownik: prof. dr med. E.Kodejszko.
(DIABETES MELLITUS compl) (CARDIOVASCULAR DISEASES etiol)
(BLOOD PROTEINS) (LIPIDS blood)

SENIOW, St.; ZGLICZYNSKI, S.L.

A case of arterial hypertension following arteriosclerosis of the renal artery. Pol. tyg. lek. 22 no.23:917-921 4 Je '62.

1. Z III Kliniki Chorob Wewnetrznych AM w Warszawie; kierownik: prof. dr E. Kodejszko i Zakladu Radiologii AM w Warszawie; kierownik: prof. dr nauk med. W. Zawadowski.

(HYPERTENSION REHAL etiol) (ARTERIOSCLEROSIS compl)
(REMAL ARTERY dis)

POLAND

Eugeniusz KCDEJSZKO, Stefania SENICE and Izabella MIEDZWIEDZKA, Third Clinic of Internal Medicine, Hedical College (III Klinika Chorob Wewnetrznych All [=Akademii Medycznej],) Head (kierownik) Prof Dr Eugeniuse KODEJSZKO; and Institute of Theumatology (Instytut Reumatologii) Director (dyrektor) Dr W1. BRUENL, Warsaw.

"Goservations on Insulin-Resistance."

Marsau, Polski Tygodaik Lekarski, Vol 17, No 43, 22 Oct 1962; pp 1681-1684.

Abstract [English summary modified]: Studies in five relatively insulin-resistant diabetic rationts and in 6 psychiatric rationes with decreased insulin sensitivity (100 units did not induce hypoglycomic leak): ajar gel electrophoresis revealed insulin ancibodies between alabalin fractions beta and garma; clinical course (e.g. improvement with "diabetal" (=tolbutamide) therapy) and promimence of antibody trace were always coincidental. Five immunoelectrophoresis strips, 32 Western, i Folish reference.

1/1

OSTROWSKI, Kazimierz; SENIOW, Stefania

Glycoprotein fractions studies by electrophoresis in the vascular complications of diabetes. Pol. arch. med. wewn. 33 no.1:33-37 '62.

1. Z III Kliniki Chorob Wewnetrznych AM w Warszawie Kierownik: prof. dr med. E. Kodejszko.

(GLYCOPROTEINS) (BLOOD PROTEIN ELECTROPHORESIS)

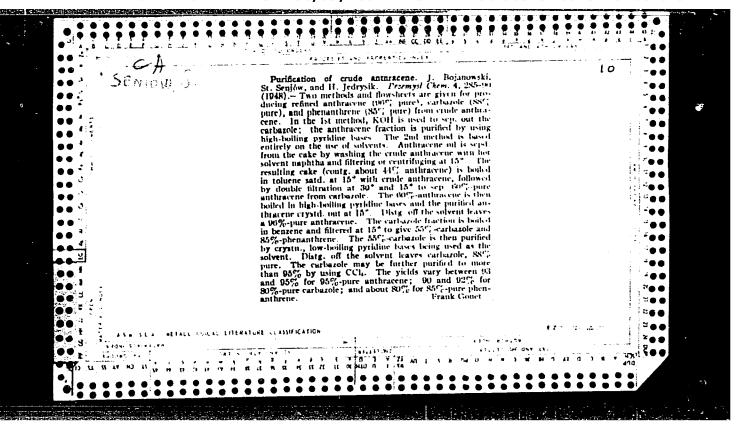
(DIABETIC ANGIOPATHIES) (DIABETES MELLITUS) (BLOOD CHEMICAL ANALYSIS)

KODEJSZKO, Eugeniusz; SENIOW, Stefania; NIEDZWIECKA, Izabella

Clinical significance of insulin resistance. Pol. arch. med. wewnet. 34 no.2:153-163 164

1. Z III Kliniki Chorob Wewnetrznych AM w Warszawie (kierownik: prof.dr.med. E.Kodejszko) i z Panstwowego Instytutu Reumatologii w Warszawie (Dyrektor: dr.med. W.Bruhl).





L 40092-66 EWT(m)/m/pup/	
ACC NRI LEWP(t)/ETI/EWP(L)	
ATGO16429 (A) SOURCE CONTROL OF THE ATGO SOURCE	
AUTHORS. T. SOURCE CODE: UR/0000/65/000/000/	
AUTHORS: Livanov, V. A.; Shteyninger, V. Senishoribaninger, V. Senishoribaninger, V. S. Senishor	
Molodchinina, S. P.; Molodchinina, S. P.; Molodchinina	
AUTHORS: Livanov, V. A.; Shteyninger, V. R.; Molodchinina, S. P.; Molodchinin, Ye. ORG: none	
7	
TITLE: The rolling of thin-walled tubes from slightly deformable aluminum alloys raphy of light all metallurgic Notally as	
Bri	
SOURCE: AN SSSR Translet aluminum allows	
raphy of light allows Wetallurgii. Metallowed and	
SOURCE: AN SSSR. Institut metallurgii. Metallovedeniye legkikh splavov (Metallog-TOPIC TAGS: aluminum alloys	
TOPIC TAGS: aluminum aller del combi	
aluminum alloy, D16 aluminum metal in roll forming hat solling, metal tube	
TOPIC TAGS: aluminum alloy, metal deponention aluminum alloy, D16 aluminum alloy, AME6 aluminum alloy ABSTRACT: Tests	
ABSTRACT: Tests were performed to determine the feasibility and best means of Test data recordings show the mechanical properties of alloy specimens as a function of temperature and as a function of the process by which the specimens as a function of the process by which the specimens as a function of the process by which the specimens as a function of the process by which the specimens are a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the process by which the specimens are specimens as a function of the specimens are specimens as a function of the specimens are specimens.	
producing thin-walled tuber of the feasibility	
Test data recordings show the mechanical properties of alloys by the method of heat rolling. Improved technological properties of the process by which the alloy is milled rolling process.	
of temperature and as a function of the process by which the alloy is milled. Improved technological properties of the tube specimens are afforded by the method of heat rolling. Improved technological properties of the tube specimens are afforded by the method of heat rolling.	
Improved technological properties of the process by which the alloy is milled. Temperature interval 120-2200 without inte	
torrow process. It was found that the tube specimens are affect is milled.	
restrictive interval 120-2200 mith that alloys D1 and D16 are easily the hot-	
rolling process. It was found that alloys D1 and D16 are easily rolled in the restriction on chemical content) can interval 120-220C without intermediate temperature.	
temperature interval 120-220C without intermediate tempering. Alloy AMg6 (with no condition is about 150C. The hot-rolling temperature for AMg6 in the nonannealed Card 1/2	
solidation is about 150c. The hot-rolling temperature for AMof in the same	
Card 1/2 technique is more productive the nonannealed	
which the cold	
	<u>.</u>
Card 2/2 116	

DENTISCH, V.

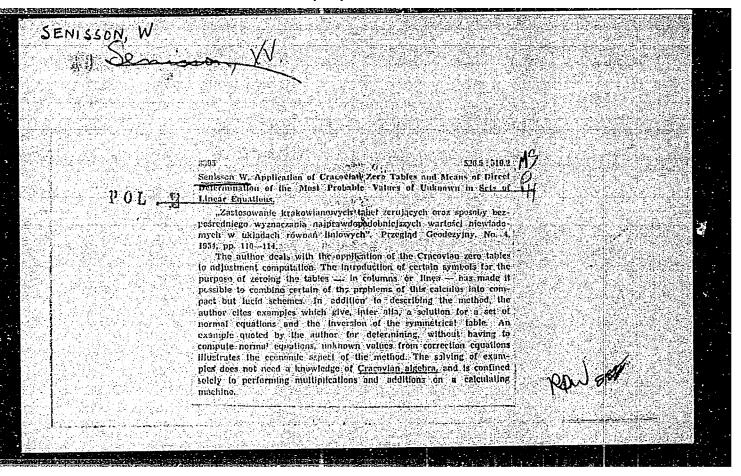
Semisson, W. Formulas for mean lateral and longitudinal errors of the points in a rectilinear and equilateral polygon with consideration of errors of four-point connection. (Conclusion) p. hg.

GEODEZJA I KARTOGRAFIA

Vol. 2, No. 1, 1953. Vol. 5, No. 1, 1956.

Warszawa, Poland

SO: Honthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 10 Oct. 56



SENISSON, W.

"Formulas of a New Type of Direct Determination of a Term of Inverted Triangular Cracovian and Their Application to Direct Determination of Unknowns from the Optional Triangular Table of Coefficients of Lineal Equations." P. 140, (PRZEGLAD GEODEZYJNY, Vol. 10, No. 5, May 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

SENESON, W.

Formulas for mean lateral and longitudinal errors of the points in a rectilinear and equilateral polygon with consideration of errors of four-point connection. p. 216.

GECDEZJA I KARTOGRAFIA, Vol. 4, no. 4, 1955.

POLAND

SOURCE: EAST EUROPEAN ACCESSIONS LIST LC Vol. 5, August 1956. no. 7,

Geod.i kart. n	Hausbrandt's "auxiliary symboo.10:14-23 D '56.	(MLRA 10:2)
	(Geodesy)	1

SENISSON, W.

Mean diagonal errors of points in a rectilinear, equilateral, reciprocally connected polygon relative to the length of the connected sides and taking into account the mean coordinated-connection errors. (To be contd.). p. 107.

GEODEZJA I KARTOGRAFIA. (Polska Akademia Nauk. Komitet Geodezji) Warszawa. Vol. 7, no. 2, 1958 Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. δ , no. 6, June 1959 Uncl.

SENISSON, W.

Mean diagonal errors of points in a rectilinear, equilateral, reciprocally connected polygon relative to the length of the connected sides and taking into account the mean coordinated-connection errors. (Conclusion) p. 162.

GEODEZJA I KARTOGRAFIA.)Polska Akademia Nauk. Komitet Geodezji) Warszawa. Vol. 7, no. 3, 1958 Poland/

Monthly List of East European Accessions Index (EFAI), LC, Vol. 8, no. 6, June 1959 Uncl.

CIA-RDP86-00513R001547920019-3 "APPROVED FOR RELEASE: 08/09/2001

SENIT SKAM, T. T.

110-4-9/25

Rozenkrants, A.S., and Senitskaya, T.T., Candidates of .AUTHORS:

Technical Sciences

A Wattmeter Method for the Harmonic Analysis of Electrical TITLE:

Quantities (Vattmetrovyy metod garmonicheskogo analiza

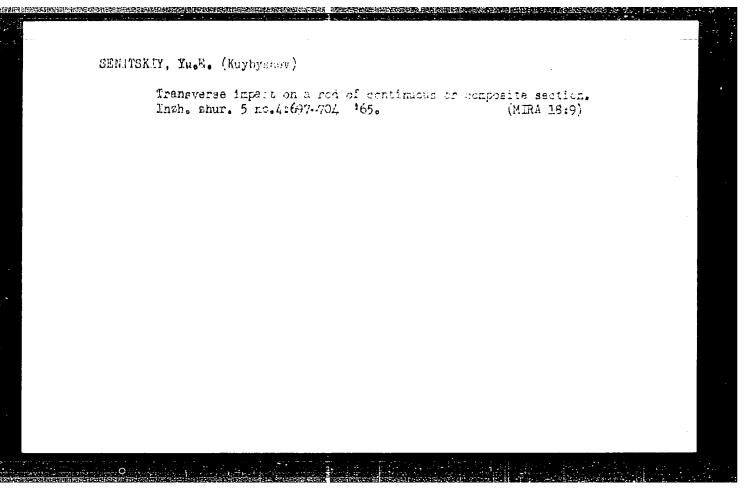
elektricheskikh velichin)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No. 4, pp. 28 - 30 (USSR).

A simple and reasonably accurate method of measuring ABSTRACT: harmonics of electrical quantities is proposed. Active power is the product of current and voltage of the same frequency. either the voltage or the current is sinusoidal and the other is not, then the active power, when the frequency of the sinuscidal magnitude coincides with that of one of the harmonics of the unsinusoidal quantities, does not depend on the values of these other harmonics. The proposed wattmeter method is based on this principle.

One winding of the wattmeter is connected to the non-sinusoidal magnitude, for example, current and the other to a purely sinus-oidal one, for example, voltage. The expression for the power includes the cosine of the angle of lag of the current, which may be arbitrary. However, if the generator frequency is varied Cardl/2 slightly to differ from the frequency of the measured harmonic

Calculation of the general stability of oil derricks. Izv.vys. uch.zav.; stroi. i arkhit 5 no.4:75-85 '62. (MIRA 15:9)	
l. Kuybyshevskiy inzhenerno-stroitel'nyy institut imeni Mikoyana. (Oil well drilling rigs)	



SENITSKIY, Yu.E.

Approximate estimate of the carrying-capacity reserve of derricks. Izv. vys. ucheb. zav.; neft' i gaz 7 no.5:95-100 '64. (MIRA 17:9)

1. Kuybyshevskiy inzhenerno-strcitel'nyy institut im. A.I. Mikoyana.

	T(d)/EWT(m)/EWP(w),				
ACC NR: AP60113	29 EM	SOURCE CODE:	UR/0198/66/002/00	3/0013/0020	
AUTHOR: Senitsk	iy, Yu. E. (Kuybyshe	v)		25	
ORG: Kuybyshev	Structural Engineeri	ng Institute (Kuy)	yshevskiy inzhener	no- B	
stroitelnyy inst	itut)				
CITLE: On the s	olution of a dynamic	problem for a fla	t spherical shell		
SOURCE: Priklad	naya mekhanika, v. 2	, no. 3, 1966, 15		6	
POPIC TAGS: she partial differen	ll theory, integral tial equation, Bess	transform, sphericel function	shell structure,		
ABSTRACT: The m	oment theory for she	lls is used to so	ive the dynamic load	ding	
	at spherical shell. d the initial condit		ts assumed to be ap	FITOUTO AND	
		$(r); \frac{\partial}{\partial r} W(r, 0) = \varrho$	r(r),		
where W represen	ts the displacement			re those for	
a hinged support		$W(a, t) = 0; \nabla^2 W(a, t)$			

1. 26590-66					
ACC NR: A	6011329				0
O(r.t) ar	solved using i	al differential ntegral transfor er-Bessel series	rms and represe	and the stress funting the desired	nction functions
	$W(r,t)=\frac{2}{a}$	$\sum_{i=1}^{\infty} \left\{ \frac{c^2}{ D } \int_{0}^{1} \int_{0}^{a} \frac{Z(r, t)}{\omega_t} \right\}$	$\frac{1}{2}\sin\omega_{t}(t-\tau)rJ_{0}(\xi)$	r) dadr +	
	$+\int_{0}^{a} [f(t)]$	$\cos \omega_l t + \frac{g(r)}{\omega_l} \sin \omega_l$	$\int_{0}^{\infty} dr \int_{0}^{\infty} dr \left[J_{1} \right]$	(ξ _i r) (ξ _i a)] ² ;	
and		$\omega_l = V \overline{\lambda}$			
		$\widehat{p(r,t)} = \frac{2b^2 ph}{a^2} \sum_{l=1}^{\infty}$. (8		
	×	$\frac{Z(r,t)}{\omega_t}\sin\omega_t(t-\tau)t$	$J_0(\xi,r) dr d\tau du$	$\frac{1}{(1(\xi\rho))^2}$	
Card 2/3_					